

(19)



JAPANESE PATENT OFFICE

**PATENT ABSTRACTS OF JAPAN**

(11)Publication number (Emperor's year): **59179528 A**

(43)Date of publication of application: **12 . 10 . 84**

(51)Int. Cl **C08J 3/14**

(21)Application number: **58054537**

(71)Applicant: **KURARAY CO LTD**

(22)Date of filing: **29 . 03 . 83**

(72)Inventor: **INOUE TAKESHI**

**(54)PRODUCTION OF PULP-LIKE MATERIAL  
OF POLYOLEFIN**

**(57)Abstract:**

**PURPOSE:** To prepare a pulp-like material having excellent dispersibility in a liquid, and composed of fibrous particles having high strength, elongation and elastic modulus, by stirring a dilute solution of a high-molecular weight polyolefin under specific condition and under shearing force, cooling the mixture to a specific temperature, and disintegrating the phase-separated solution.

**CONSTITUTION:** A solution of a polyolefin having a weight-average molecular weight

of  $\geq 400,000$  and a concentration of 25% is stirred for  $\geq 5$ sec at a temperature above the phase-separation temperature of the solvent and below the phase-separation temperature  $+50^{\circ}\text{C}$ , applying a shearing force corresponding to the maximum shear rate of  $1W50,000\text{sec}^{-1}$  at the outermost edge of the stirring blade. After stirring, the solution is cooled at a rate of  $\geq 0.1^{\circ}\text{C}/\text{min}$  to a temperature lower than the phase-separation temperature by  $\geq 25^{\circ}\text{C}$ . The phase-separated solution is disintegrated by the use of preferably a solvent such as water, alcohol, ketone, etc.

**COPYRIGHT: (C)1984,JPO&Japio**